

# Fuel Handling Equipment and Crane Manufacturing

## Fuel Handling Equipment Training Center

### Background

One of the easiest and most cost effective ways to improve safety and equipment reliability while reducing maintenance costs is training. Westinghouse can provide fuel handling equipment training at our training center in Shoreview, Minnesota or onsite at your facility. The training center will provide customers with a wide variety of hands-on training courses and students with a safe and controlled environment in which to learn.

Students will be trained by industry fuel handling equipment experts using proven training techniques. Our professionally prepared training manuals and workbooks will continue to serve as a valuable resource for future reference.

### Description

Common topics of focus for training include:

- Equipment Operations and Fault Identification
- Maintenance, Setup and Inspection
- Software Fundamentals and Troubleshooting

More specifically, training can include:

- PLC Fundamentals
- PLC Logic Constant Updating
- Electrical Drive Setup and Troubleshooting
- Mechanical System Adjustments
- System and Component Level Troubleshooting

Select from a list of courses and customize a training package that complements the vintage of fuel handling equipment at your site.

### Training at Shoreview

Westinghouse's Shoreview training center is a hands-on lab consisting of benches specifically designed for each learning objective. Students can expect one-on-one instructor collaboration in an focused training setting.

The center also includes a fully-equipped classroom for group lecture and visual-type training. The classroom is conveniently located adjacent to the lab and other amenities.



*Shoreview Training Lab*



*Shoreview Classroom*

## Course List

Customers can select from an extensive list of training modules to create a training course that meets their needs. Multiple training benches allow students to work directly with components found on their equipment. Some of the training modules include topics such as:

- Motor Drives Setup and Troubleshooting
  - Servo Drives
  - Variable Frequency Drives
  - DC Drives
- PLC Ladder Logic
  - Basic Operations
  - Intermediate Operations
  - Troubleshooting
- Cameras
  - Setup/Troubleshooting
  - Component Replacements
- Gearboxes
  - Load Brake Adjustments
- Cylinder Rebuilding for Transfer Systems Upenders
- Grippers / Grapples
  - Basic Function and Maintenance
- Electrical and Pneumatic Reels
  - Maintenance and Setup
- Load Weighing Systems
  - Basics and Setup Point Adjustments
  - Troubleshooting
- Proper Equipment Operation and Error Recognition
- Customized Classes are Available

The training curriculum is structured to allow students to progress through a series of learning tasks and troubleshooting steps based on real world scenarios. Mock-ups and simulators are also used to enhance the learning experience. Testing and equipment certification are available, including practical exams.

## Onsite Training

Westinghouse offers customized fuel handling equipment courses that can be held at your facility and designed to meet your students' skill level. Daily start and end times can be adjusted to limit the interruption in work schedule.

## Benefits

Westinghouse believes that sharing equipment knowledge with our customer improves equipment reliability, reduces down time and creates a partnership with our customers. Students leave with an in-depth understanding of the fuel handling equipment sub-level systems and will be able to apply these new skills directly to the equipment they support. These training courses help students to build confidence and enhance their ability to troubleshoot problems and proactively identify potential equipment failure.

## Deliverables

Students will receive training with clearly defined objectives and goals. Training is presented in the Topic Learning Objective (TLO) (objective-based) format commonly used in the U.S. military, which ensures that each topic is thoroughly understood before moving onto the next topic. A certificate of completion is presented at the end of the session.

## Experience

Westinghouse's instructors are highly skilled in many fields of technical training, including electrical and mechanical troubleshooting, as well as all aspects of fuel handling equipment operations and maintenance.

## Contact

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